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<u>PATENT</u> Docket No.: 015270-006430US

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OFFICE OF PETITIONS

By: Jula March

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: ANDERSON, John P.

Application No.: 09/471,669

Filed: December 24, 1999

For: BETA-SECRETASE ENZYME COMPOSITIONS AND METHODS

Examiner: Malgorzata A. Walicka

Art Unit:

1652

PETITION TO WITHDRAW APPLICATION

FROM ISSUANCE PURSUANT TO

37 C.F.R. §1.313(c)(2)

Mail Stop Petitions Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants request withdrawal of the application from issuance pursuant to 37 CFR 1.313(c)(2). Applicants also attach a Request for Continuing Examination (RCE) in the event that this petition is granted. A Supplemental Information Disclosure Statement for consideration in the RCE is attached.

Please charge the fee of \$130 to Deposit Account No. 20-1430. Please charge any other fees or credit any overpayments to the same account. If the Examiner believes a telephone

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ANDERSON, John P.

Application No.: 09/471,669

Page 2

PATENT

conference would expedite prosecution of this application, please telephone the undersigned at (650) 326-2400.

> Respectfully submitted, anc L. bells

Rosemarie L. Celli Reg. No. 42,397

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8th Floor San Francisco, California 94111-3834 Tel: (650) 326-2400

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FILING ACKNOWLEDGEMENT

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: December 24, 1999

Please stamp the date of receipt of the enclosed documents and return this card to

1. Request for Continued Examination (RCE) Transmittal (1 page); 2. Fee Transmittal (I page, submitted in duplicate);

3. Amendment (34 pages)

4. Supplemental Information Disclosure Statement Under 37 CFR §1.97 and §1.98;

6. Copies of cited references 113-138;

7. Petition to Withdraw Application From Issuance Pursuant to 37 CFR §1.313(c)(2)(2 pgs); and,

File No. 015270-006430US

R. Celli /A. Baker

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OFFICE OF PETITIONS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

John P. Anderson et al.

Application No.: 09/471,669

Filed: December 24, 1999

For: BETA-SECRETASE ENZYME COMPOSITIONS AND METHODS

Customer No.: 20350

Confirmation No.

Examiner:

Walicka, Malgorzata A.

Technology Center/Art Unit: 1652

AMENDMENT

Mail Stop Petitions Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This paper is being submitted with a Petition to Withdraw Application From Issuance Pursuant to 37 C.F.R § 1.313(c)(2), an Request for Continued Examination, a Supplemental Information Disclosure with attached PTO/SB/08A form, and references (cite nos. 113-138. Please enter the following amendments and remarks:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 32 of this paper.

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1-47. (Withdrawn)
- 48. (Currently Amended) An isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NO: 43, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 69, or a complementary sequence of any of such nucleotides.

49-50. (Canceled)

- 51. (Currently Amended) An expression vector, comprising the isolated nucleic acid of claim 48 and a promoter, wherein the nucleic acid and the promoter are operably linked; and operably linked to said nucleic acid; regulatory sequences effective for expression of the nucleic acid in a selected host cell.
- 52. (Original) The recombinant expression vector of claim 51, wherein said vector is suitable for transfection of a bacterial cell.
- 53. (Original) A heterologous cell transfected with the vector of claim 51, wherein said cell expresses a biologically active β-secretase.
 - 54. (Original) The cell of claim 53, wherein said cell is a eukaryotic cell.
 - 55. (Original) The cell of claim 53, wherein said cell is a bacterial cell.
 - 56. (Original) The cell of claim 53, wherein said cell is an insect cell.
 - 57. (Original) The cell of claim 53, wherein said cell is a yeast cell.
- 58. (Currently Amended) A method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of

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nucleotides that encodes SEQ ID NO: 2, SEQ ID NO: 43, SEQ ID NO: 56, SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 70, SEQ ID NO: 74, SEQ ID NO: 75, a β-secretase protein, or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.

- 59. (Original) The method of claim 58, wherein said affinity matrix contains a β-secretase inhibitor molecule.
- 60. (Previously Amended) The method of claim 59, wherein said inhibitor molecule is P10-P4'staD->V (SEQ ID NO:73).
- 61. (Original) The method of claim 58, wherein said matrix contains an antibody characterized by an ability to bind β-secretase.
- 62. (Currently Amended) The method of claim 61, wherein said antibody binds specifically to any of the protein compositions of SEQ ID NO: 2, SEQ ID NO: 43, SEQ ID NO: 56, SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 70, SEQ ID NO: 71, SEQ ID NO: 74, SEQ ID NO: 75, or a β secretase protein.
- 63. (Previously Amended) The method of claim 61, wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.
 - 64. (Currently Amended) A heterologous cell, comprising
- (i) a nucleic acid molecule encoding SEQ ID NO: 43, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 69, or the complementary sequence of said nucleic acid molecule;
 - (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and
- (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell.

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- 65. (Original)) The cell of claim 64, wherein said nucleic acid encoding said β-secretase protein is heterologous to said cell.
- 66. (Previously Amended) The cell of claim 64, wherein both said nucleic acids encoding said β -secretase protein and encoding said β -secretase substrate molecule are heterologous to said cell.
- 67. (Original) The cell of claim 64, wherein said β -secretase substrate molecule is selected from the group consisting of APPwt, APPsw, and β -secretase cleavable fragments thereof.
- 68. (Previously Amended) The cell of claim 64, wherein said β-secretase substrate is selected from the group consisting of a maltose binding protein fused at the carboxy-terminus to the 125 carboxyl-terminal amino acids of APP having the cleavage site of SEQ ID NO: 54 (MBP-C125wt) and a maltose binding protein fused at the carboxy-terminus to the 125 C-terminus amino acids of APP having the cleavage site of SEQ ID NO: 51 (MBP-C125sw).
- 69. (Currently Amended) The cell of claim 67, wherein said β-secretase-cleavable fragment is selected from the group consisting of SEQ ID NO: 82; SEQ ID NO: 83; SEQ ID NO: 84; SEQ ID NO: 85; SEQ ID NO: 86; SEQ ID NO: 87; SEQ ID NO: 88; SEQ ID NO: 93; SEQ ID NO: 91; SEQ ID NO: 92; SEQ ID NO: 93; SEQ ID NO: 94; SEQ ID NO: 95; and SEQ ID NO: 96.

70-113. (Canceled)

- 114. (New) An isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NO: 58 or a complementary sequence of any of such nucleotides.
- 115. (New) An expression vector, comprising the isolated nucleic acid of claim 114 and a promoter, wherein the nucleic acid and the promoter are operably linked.
- 116. (New) The expression vector of claim 115, wherein said vector is suitable for transfection of a bacterial cell.

- 117. (New) A heterologous cell transfected with the vector of claim 115, wherein said cell expresses a biologically active β-secretase.
 - 118. (New) The cell of claim 117, wherein said cell is a eukaryotic cell.
 - 119. (New) The cell of claim 117, wherein said cell is a bacterial cell.
 - 120. (New) The cell of claim 117, wherein said cell is an insect cell.
 - 121. (New) The cell of claim 117, wherein said cell is a yeast cell.
- 122. (New) An isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NO: 59 or a complementary sequence of any of such nucleotides.
- 123. (New) An expression vector, comprising the isolated nucleic acid of claim 122 and a promoter, wherein the nucleic acid and the promoter are operably linked.
- 124. (New) The expression vector of claim 123, wherein said vector is suitable for transfection of a bacterial cell.
- 126. (New) A heterologous cell transfected with the vector of claim 123, wherein said cell expresses a biologically active β-secretase.
 - 127. (New) The cell of claim 126, wherein said cell is a eukaryotic cell.
 - 128. (New) The cell of claim 126, wherein said cell is a bacterial cell.
 - 129. (New) The cell of claim 126, wherein said cell is an insect cell.
 - 130. (New) The cell of claim 126, wherein said cell is a yeast cell.
- 131. (New) An isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NO: 66 or a complementary sequence of any of such nucleotides.
- 132. (New) An expression vector, comprising the isolated nucleic acid of claim 131 and a promoter, wherein the nucleic acid and the promoter are operably linked.
- 133. (New) The expression vector of claim 132, wherein said vector is suitable for transfection of a bacterial cell.

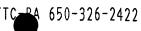
- 134. (New) A heterologous cell transfected with the vector of claim 132, wherein said cell expresses a biologically active β-secretase.
 - 135. (New) The cell of claim 134, wherein said cell is a eukaryotic cell.
 - 136. (New) The cell of claim 134, wherein said cell is a bacterial cell.
 - 137. (New) The cell of claim 134, wherein said cell is an insect cell.
 - 138. (New) The cell of claim 134, wherein said cell is a yeast cell.
- 139. (New) An isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NO: 67 or a complementary sequence of any of such nucleotides.
- 140. (New) An expression vector, comprising the isolated nucleic acid of claim 139 and a promoter, wherein the nucleic acid and the promoter are operably linked.
- 141. (New) The expression vector of claim 140, wherein said vector is suitable for transfection of a bacterial cell.
- 142. (New) A heterologous cell transfected with the vector of claim 140, wherein said cell expresses a biologically active β -secretase.
 - 143. (New) The cell of claim 142, wherein said cell is a eukaryotic cell.
 - 144. (New) The cell of claim 142, wherein said cell is a bacterial cell.
 - 145. (New) The cell of claim 142, wherein said cell is an insect cell.
 - 146. (New) The cell of claim 142, wherein said cell is a yeast cell.
- 147. (New) An isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NO: 68 or a complementary sequence of any of such nucleotides.
- 148. (New) An expression vector, comprising the isolated nucleic acid of claim 147 and a promoter, wherein the nucleic acid and the promoter are operably linked.
- 149. (New) The expression vector of claim 148, wherein said vector is suitable for transfection of a bacterial cell.

- 150. (New) A heterologous cell transfected with the vector of claim 148, wherein said cell expresses a biologically active β-secretase.
 - 151. (New) The cell of claim 150, wherein said cell is a eukaryotic cell.
 - 152. (New) The cell of claim 150, wherein said cell is a bacterial cell.
 - 153. (New) The cell of claim 150, wherein said cell is an insect cell.
 - 154. (New) The cell of claim 150, wherein said cell is a yeast cell.
- 155. (New) An isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NO: 69 or a complementary sequence of any of such nucleotides.
- 156. (New) An expression vector, comprising the isolated nucleic acid of claim
 155 and a promoter, wherein the nucleic acid and the promoter are operably linked.
- 157. (New) The expression vector of claim 156, wherein said vector is suitable for transfection of a bacterial cell.
- 158. (New) A heterologous cell transfected with the vector of claim 156, wherein said cell expresses a biologically active β-secretase.
 - 159. (New) The cell of claim 158, wherein said cell is a eukaryotic cell.
 - 160. (New) The cell of claim 158, wherein said cell is a bacterial cell.
 - 161. (New) The cell of claim 158, wherein said cell is an insect cell.
 - 162. (New) The cell of claim 158, wherein said cell is a yeast cell.
- 163. (New) An isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NO: 70 or a complementary sequence of any of such nucleotides.
- 164. (New) An expression vector, comprising the isolated nucleic acid of claim 163 and a promoter, wherein the nucleic acid and the promoter are operably linked.
- 165. (New) The expression vector of claim 163, wherein said vector is suitable for transfection of a bacterial cell.

- 166. (New) A heterologous cell transfected with the vector of claim 164, wherein said cell expresses a biologically active β-secretase.
 - 167. (New) The cell of claim 166, wherein said cell is a eukaryotic cell.
 - 168. (New) The cell of claim 166, wherein said cell is a bacterial cell.
 - 169. (New) The cell of claim 166, wherein said cell is an insect cell.
 - 170. (New) The cell of claim 166, wherein said cell is a yeast cell.
- 171. (New) An isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NO: 74 or a complementary sequence of any of such nucleotides
- 172. (New) An expression vector, comprising the isolated nucleic acid of claim 171 and a promoter, wherein the nucleic acid and the promoter are operably linked.
- 173. (New) The expression vector of claim 172, wherein said vector is suitable for transfection of a bacterial cell.
- 174. (New) A heterologous cell transfected with the vector of claim 172, wherein said cell expresses a biologically active β -secretase.
 - 175. (New) The cell of claim 174, wherein said cell is a eukaryotic cell.
 - 176. (New) The cell of claim 174, wherein said cell is a bacterial cell.
 - 177. (New) The cell of claim 174, wherein said cell is an insect cell.
 - 178. (New) The cell of claim 174, wherein said cell is a yeast cell.
- 179. (New) A method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 58 or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.

- 180. (New) The method of claim 179, wherein said affinity matrix contains a β-secretase inhibitor molecule.
- 181. (Previously Amended) The method of claim 180, wherein said inhibitor molecule is P10-P4'staD->V (SEQ ID NO:73).
- 182. (New) The method of claim 179, wherein said matrix contains an antibody characterized by an ability to bind β-secretase.
- 183. (New) The method of claim 182, wherein said antibody binds specifically to SEQ ID NO: 58.
- 184. (New) The method of claim 182, wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.
- 185. (New) A method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 59 or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.
- 186. (New) The method of claim 185, wherein said affinity matrix contains a β-secretase inhibitor molecule.
- 187. (New) The method of claim 186, wherein said inhibitor molecule is P10-P4'staD->V (SEQ ID NO:73).
- 188. (New) The method of claim 185, wherein said matrix contains an antibody characterized by an ability to bind β-secretase.
- 189. (New) The method of claim 188, wherein said antibody binds specifically to SEQ ID NO: 59.

- 190. (New) The method of claim 188, wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.
- 191. (New) A method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 66 or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.
- 192. (New) The method of claim 191, wherein said affinity matrix contains a β -secretase inhibitor molecule.
- 193. (New) The method of claim 192, wherein said inhibitor molecule is P10-P4'staD->V (SEQ ID NO:73).
- 194. (New) The method of claim 191, wherein said matrix contains an antibody characterized by an ability to bind β-secretase.
- 195. (New) The method of claim 194, wherein said antibody binds specifically to SEQ ID NO: 66.
- 196. (New) The method of claim 194, wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.
- 197. (New) A method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 67 or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.
- 198. (New) The method of claim 197, wherein said affinity matrix contains a β-secretase inhibitor molecule.



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- 199. (New) The method of claim 198, wherein said inhibitor molecule is P10-P4'staD->V (SEQ ID NO:73).
- 200. (New) The method of claim 197, wherein said matrix contains an antibody characterized by an ability to bind β-secretase.
- 201. (New) The method of claim 200, wherein said antibody binds specifically to SEQ ID NO: 67.
- 202. (New) The method of claim 197, wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.
- 203. (New) A method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 68 or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.
- 204. (New) The method of claim 203, wherein said affinity matrix contains a β-secretase inhibitor molecule.
- 205. (New) The method of claim 204, wherein said inhibitor molecule is P10-P4'staD->V (SEQ ID NO:73).
- 206. (New) The method of claim 203, wherein said matrix contains an antibody characterized by an ability to bind β-secretase.
- 207. (New) The method of claim 206, wherein said antibody binds specifically to SEQ ID NO: 68.
- 208. (New) The method of claim 206, wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.

- 209. (New) A method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 69 or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.
- 210. (New) The method of claim 209, wherein said affinity matrix contains a β-secretase inhibitor molecule.
- 211. (New) The method of claim 210, wherein said inhibitor molecule is P10-P4'staD->V (SEQ ID NO:73).
- 212. (New) The method of claim 211, wherein said matrix contains an antibody characterized by an ability to bind β-secretase.
- 213. (New) The method of claim 209, wherein said antibody binds specifically to SEQ ID NO: 69.
- 214. (New) The method of claim 212, wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.
- 215. (New) A method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 70 or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.
- 216. (New) The method of claim 215, wherein said affinity matrix contains a β -secretase inhibitor molecule.
- 217. (New) The method of claim 216, wherein said inhibitor molecule is P10-P4'staD->V (SEQ ID NO:73).

- 218. (New) The method of claim 215, wherein said matrix contains an antibody characterized by an ability to bind β -secretase.
- 219. (New) The method of claim 218, wherein said antibody binds specifically to SEQ ID NO: 70.
- 220. (New) The method of claim 218, wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.
- 221. (New) A method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 74 or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.
- 222. (New) The method of claim 221, wherein said affinity matrix contains a β -secretase inhibitor molecule.
- 223. (New) The method of claim 222, wherein said inhibitor molecule is P10-P4'staD->V (SEQ ID NO:73).
- 224. (New) The method of claim 221, wherein said matrix contains an antibody characterized by an ability to bind β -secretase.
- 225. (New) The method of claim 224, wherein said antibody binds specifically to SEQ ID NO: 74.
- 226. (New) The method of claim 221, wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.
- 227. (New) The cell of claim 67, wherein said β -secretase-cleavable fragment is SEQ ID NO: 83.

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(New) The cell of claim 67, wherein said β-secretase-cleavable fragment 228. is SEQ ID NO: 84. 229. (New) The cell of claim 67, wherein said β-secretase-cleavable fragment is SEQ ID NO: 85. 230. (New) The cell of claim 67, wherein said β-secretase-cleavable fragment is SEQ ID NO: 86. (New) The cell of claim 67, wherein said β-secretase-cleavable fragment 231. is SEQ ID NO: 87. (New) The cell of claim 67, wherein said β-secretase-cleavable fragment 232. is SEQ ID NO: 88. 233. (New) The cell of claim 67, wherein said β-secretase-cleavable fragment is SEQ ID NO: 89. 234. (New) The cell of claim 67, wherein said β-secretase-cleavable fragment is SEQ ID NO: 90. 235. (New) The cell of claim 67, wherein said \(\beta\)-secretase-cleavable fragment is SEQ ID NO: 91. (New) The cell of claim 67, wherein said β-secretase-cleavable fragment 236. is **SEQ ID NO: 92.** (New) The cell of claim 67, wherein said β -secretase-cleavable fragment 237. is SEQ ID NO: 93. (New) The cell of claim 67, wherein said \beta-secretase-cleavable fragment 238. is SEQ ID NO: 94. 239. (New) The cell of claim 67, wherein said β-secretase-cleavable fragment is SEQ ID NO: 95.

- 240. (New) The cell of claim 67, wherein said β -secretase-cleavable fragment is SEQ ID NO: 96.
 - 241. (New) A heterologous cell, comprising
- (i) a nucleic acid molecule encoding SEQ ID NO: 58 or the complementary sequence of said nucleic acid molecule;
 - (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and
- (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell.
- 242. (New) The cell of claim 241, wherein said nucleic acid encoding said β -secretase protein is heterologous to said cell.
- 243. (New) The cell of claim 241, wherein both said nucleic acids encoding said β-secretase protein and encoding said β-secretase substrate molecule are heterologous to said cell.
- 244. (New) The cell of claim 241, wherein said β -secretase substrate molecule is selected from the group consisting of APPwt, APPsw, and β -secretase cleavable fragments thereof.
- 245. (New) The cell of claim 241, wherein said β-secretase substrate is selected from the group consisting of a maltose binding protein fused at the carboxy-terminus to the 125 carboxyl-terminal amino acids of APP having the cleavage site of SEQ ID NO: 54 (MBP-C125wt) and a maltose binding protein fused at the carboxy-terminus to the 125 C-terminus amino acids of APP having the cleavage site of SEQ ID NO: 51 (MBP-C125sw).
- 246. (New) The cell of claim 244, wherein said β-secretase-cleavable fragment is SEQ ID NO: 83.

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is SEQ ID NO: 94.

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(New) The cell of claim 244, wherein said β-secretase-cleavable fragment 247. is SEQ ID NO: 84. (New) The cell of claim 244, wherein said \beta-secretase-cleavable fragment 248. is SEQ ID NO: 85. 249. (New) The cell of claim 244, wherein said β-secretase-cleavable fragment is SEQ ID NO: 86. 250. (New) The cell of claim 244, wherein said β-secretase-cleavable fragment is SEQ ID NO: 87. 251. (New) The cell of claim 244, wherein said β-secretase-cleavable fragment is SEQ ID NO: 88. 252. (New) The cell of claim 244, wherein said β-secretase-cleavable fragment is SEQ ID NO: 89. 253. (New) The cell of claim 244, wherein said β-secretase-cleavable fragment is SEQ ID NO: 90. (New) The cell of claim 244, wherein said \beta-secretase-cleavable fragment 254. is SEQ ID NO: 91. (New) The cell of claim 244, wherein said β-secretase-cleavable fragment 255. is SEQ ID NO: 92. 256. (New) The cell of claim 244, wherein said \(\beta \)-secretase-cleavable fragment is SEQ ID NO: 93.

(New) The cell of claim 244, wherein said β-secretase-cleavable fragment

- 258. (New) The cell of claim 244, wherein said β -secretase-cleavable fragment is SEQ ID NO: 95.
- 259. (New) The cell of claim 244, wherein said β-secretase-cleavable fragment is SEQ ID NO: 96.
 - 260. (New) A heterologous cell, comprising
- (i) a nucleic acid molecule encoding SEQ ID NO: 59 or the complementary sequence of said nucleic acid molecule;
 - (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and
- (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell.
- 261. (New) The cell of claim 260, wherein said nucleic acid encoding said β-secretase protein is heterologous to said cell.
- 262. (New) The cell of claim 260, wherein both said nucleic acids encoding said β -secretase protein and encoding said β -secretase substrate molecule are heterologous to said cell.
- 263. (New) The cell of claim 260, wherein said β -secretase substrate molecule is selected from the group consisting of APPwt, APPsw, and β -secretase cleavable fragments thereof.
- 264. (New) The cell of claim 260, wherein said β-secretase substrate is selected from the group consisting of a maltose binding protein fused at the carboxy-terminus to the 125 carboxyl-terminal amino acids of APP having the cleavage site of SEQ ID NO: 54 (MBP-C125wt) and a maltose binding protein fused at the carboxy-terminus to the 125 C-terminus amino acids of APP having the cleavage site of SEQ ID NO: 51 (MBP-C125sw).

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is SEQ ID NO: 93.

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(New) The cell of claim 263, wherein said β-secretase-cleavable fragment 265. is SEQ ID NO: 83. (New) The cell of claim 263, wherein said \beta-secretase-cleavable fragment 266. is SEQ ID NO: 84. 267. (New) The cell of claim 263, wherein said β-secretase-cleavable fragment is SEQ ID NO: 85. (New) The cell of claim 263, wherein said β-secretase-cleavable fragment 268. is SEQ ID NO: 86. (New) The cell of claim 263, wherein said β-secretase-cleavable fragment 269. is SEQ ID NO: 87. (New) The cell of claim 263, wherein said β -secretase-cleavable fragment **270**. is SEQ ID NO: 88. 271. (New) The cell of claim 263, wherein said β-secretase-cleavable fragment is SEQ ID NO: 89. 272. (New) The cell of claim 263, wherein said \beta-secretase-cleavable fragment is SEQ ID NO: 90. 273. (New) The cell of claim 263, wherein said β -secretase-cleavable fragment is SEQ ID NO: 91. (New) The cell of claim 263, wherein said \beta-secretase-cleavable fragment 274. is SEQ ID NO: 92. (New) The cell of claim 263, wherein said β-secretase-cleavable fragment

- 276. (New) The cell of claim 263, wherein said β -secretase-cleavable fragment is SEQ ID NO: 94.
- 277. (New) The cell of claim 263, wherein said β -secretase-cleavable fragment is SEQ ID NO: 95.
- 278. (New) The cell of claim 263, wherein said β -secretase-cleavable fragment is SEQ ID NO: 96.
 - 279. (New) A heterologous cell, comprising
- (i) a nucleic acid molecule encoding SEQ ID NO: 66 or the complementary sequence of said nucleic acid molecule;
 - (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and
- (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell.
- 280. (New) The cell of claim 279, wherein said nucleic acid encoding said β-secretase protein is heterologous to said cell.
- 281. (New) The cell of claim 279, wherein both said nucleic acids encoding said β -secretase protein and encoding said β -secretase substrate molecule are heterologous to said cell.
- 282. (New) The cell of claim 279, wherein said β -secretase substrate molecule is selected from the group consisting of APPwt, APPsw, and β -secretase cleavable fragments thereof.
- 283. (New) The cell of claim 279, wherein said β -secretase substrate is selected from the group consisting of a maltose binding protein fused at the carboxy-terminus to the 125 carboxyl-terminal amino acids of APP having the cleavage site of SEQ ID NO: 54

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(MBP-C125wt) and a maltose binding protein fused at the carboxy-terminus to the 125 C-terminus amino acids of APP having the cleavage site of SEQ ID NO: 51 (MBP-C125sw).

- 284. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 83.
- 285. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 84.
- 286. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 85.
- 287. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 86.
- 288. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 87.
- 289. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 88.
- 290. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 89.
- 291. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 90.
- 292. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 91.
- 293. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 92.

- 294. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 93.
- 295. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 94.
- 296. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 95.
- 297. (New) The cell of claim 282, wherein said β -secretase-cleavable fragment is SEQ ID NO: 96.
 - 298. (New) A heterologous cell, comprising
- (i) a nucleic acid molecule encoding SEQ ID NO: 67 or the complementary sequence of said nucleic acid molecule;
 - (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and
- (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell.
- 299. (New) The cell of claim 298, wherein said nucleic acid encoding said β-secretase protein is heterologous to said cell.
- 300. (New) The cell of claim 298, wherein both said nucleic acids encoding said β -secretase protein and encoding said β -secretase substrate molecule are heterologous to said cell.
- 301. (New) The cell of claim 298, wherein said β -secretase substrate molecule is selected from the group consisting of APPwt, APPsw, and β -secretase cleavable fragments thereof.

- 302. (New) The cell of claim 298, wherein said β-secretase substrate is selected from the group consisting of a maltose binding protein fused at the carboxy-terminus to the 125 carboxyl-terminal amino acids of APP having the cleavage site of SEQ ID NO: 54 (MBP-C125wt) and a maltose binding protein fused at the carboxy-terminus to the 125 C-terminus amino acids of APP having the cleavage site of SEQ ID NO: 51 (MBP-C125sw).
- 303. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 83.
- 304. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 84.
- 305. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 85.
- 306. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 86.
- 307. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 87.
- 308. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 88.
- 309. (New) The cell of claim 301, wherein said β-secretase-cleavable fragment is SEQ ID NO: 89.
- 310. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 90.
- 311. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 91.

- 312. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 92.
- 313. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 93.
- 312. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 94.
- 313. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 95.
- 314. (New) The cell of claim 301, wherein said β -secretase-cleavable fragment is SEQ ID NO: 96.
 - 315. (New) A heterologous cell, comprising
- (i) a nucleic acid molecule encoding SEQ ID NO: 68 or the complementary sequence of said nucleic acid molecule;
 - (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and
- (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell.
- 316. (New) The cell of claim 315, wherein said nucleic acid encoding said β-secretase protein is heterologous to said cell.
- 317. (New) The cell of claim 315, wherein both said nucleic acids encoding said β -secretase protein and encoding said β -secretase substrate molecule are heterologous to said cell.

- 318. (New) The cell of claim 315, wherein said β -secretase substrate molecule is selected from the group consisting of APPwt, APPsw, and β -secretase cleavable fragments thereof.
- 319. (New) The cell of claim 315, wherein said β-secretase substrate is selected from the group consisting of a maltose binding protein fused at the carboxy-terminus to the 125 carboxyl-terminal amino acids of APP having the cleavage site of SEQ ID NO: 54 (MBP-C125wt) and a maltose binding protein fused at the carboxy-terminus to the 125 C-terminus amino acids of APP having the cleavage site of SEQ ID NO: 51 (MBP-C125sw).
- 320. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 83.
- 321. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 84.
- 322. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 85.
- 323. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 86.
- 324. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 87.
- 325. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 88.
- 326. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 89.
- 327. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 90.

- 328. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 91,
- 329. (New) The cell of claim 318, wherein said β-secretase-cleavable fragment is SEQ ID NO: 92.
- 330. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 93.
- 331. (New) The cell of claim 318, wherein said β-secretase-cleavable fragment is SEQ ID NO: 94.
- 332. (New) The cell of claim 318, wherein said β-secretase-cleavable fragment is SEQ ID NO: 95.
- 333. (New) The cell of claim 318, wherein said β -secretase-cleavable fragment is SEQ ID NO: 96.
 - 334. (New) A heterologous cell, comprising
- (i) a nucleic acid molecule encoding SEQ ID NO: 69 or the complementary sequence of said nucleic acid molecule;
 - (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and
- (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell.
- 335. (New) The cell of claim 334, wherein said nucleic acid encoding said β-secretase protein is heterologous to said cell.
- 336. (New) The cell of claim 334, wherein both said nucleic acids encoding said β -secretase protein and encoding said β -secretase substrate molecule are heterologous to said cell.

- 337. (New) The cell of claim 334, wherein said β -secretase substrate molecule is selected from the group consisting of APPwt, APPsw, and β -secretase cleavable fragments thereof.
- 338. (New) The cell of claim 334, wherein said β-secretase substrate is selected from the group consisting of a maltose binding protein fused at the carboxy-terminus to the 125 carboxyl-terminal amino acids of APP having the cleavage site of SEQ ID NO: 54 (MBP-C125wt) and a maltose binding protein fused at the carboxy-terminus to the 125 C-terminus amino acids of APP having the cleavage site of SEQ ID NO: 51 (MBP-C125sw).
- 339. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 83.
- 340. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 84.
- 341. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 85.
- 342. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 86.
- 343. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 87.
- 344. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 88.
- 345. (New) The cell of claim 337, wherein said β-secretase-cleavable fragment is SEQ ID NO: 89.
- 346. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 90.

- 347. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 91.
- 348. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 92.
- 349. (New) The cell of claim 337, wherein said β-secretase-cleavable fragment is SEQ ID NO: 93.
- 350. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 94.
- 351. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 95.
- 352. (New) The cell of claim 337, wherein said β -secretase-cleavable fragment is SEQ ID NO: 96.
 - 353. (New) A heterologous cell, comprising
- (i) a nucleic acid molecule encoding SEQ ID NO: 70 or the complementary sequence of said nucleic acid molecule;
 - (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and
- (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell.
- 354. (New) The cell of claim 353, wherein said nucleic acid encoding said β -secretase protein is heterologous to said cell.
- 355. (New) The cell of claim 353, wherein both said nucleic acids encoding said β -secretase protein and encoding said β -secretase substrate molecule are heterologous to said cell.

- 356. (New) The cell of claim 353, wherein said β -secretase substrate molecule is selected from the group consisting of APPwt, APPsw, and β -secretase cleavable fragments thereof.
- 357. (New) The cell of claim 353, wherein said β-secretase substrate is selected from the group consisting of a maltose binding protein fused at the carboxy-terminus to the 125 carboxyl-terminal amino acids of APP having the cleavage site of SEQ ID NO: 54 (MBP-C125wt) and a maltose binding protein fused at the carboxy-terminus to the 125 C-terminus amino acids of APP having the cleavage site of SEQ ID NO: 51 (MBP-C125sw).
- 358. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 83.
- 359. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 84.
- 360. (New) The cell of claim 356, wherein said β-secretase-cleavable fragment is SEQ ID NO: 85.
- 361. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 86.
- 362. (New) The cell of claim 356, wherein said β-secretase-cleavable fragment is SEQ ID NO: 87.
- 363. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 88.
- 364. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 89.
- 365. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 90.

- 366. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 91.
- 367. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 92.
- 368. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 93.
- 369. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 94.
- 370. (New) The cell of claim 356, wherein said β -secretase-cleavable fragment is SEQ ID NO: 95.
- 371. (New) The cell of claim 356, wherein said β-secretase-cleavable fragment is SEQ ID NO: 96.
 - 372. (New) A heterologous cell, comprising
- (i) a nucleic acid molecule encoding SEQ ID NO: 74 or the complementary sequence of said nucleic acid molecule;
 - (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and
- (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell.
- 373. (New) The cell of claim 372, wherein said nucleic acid encoding said β-secretase protein is heterologous to said cell.
- 374. (New) The cell of claim 372, wherein both said nucleic acids encoding said β-secretase protein and encoding said β-secretase substrate molecule are heterologous to said cell.

- 375. (New) The cell of claim 372, wherein said β -secretase substrate molecule is selected from the group consisting of APPwt, APPsw, and β -secretase cleavable fragments thereof.
- 376. (New) The cell of claim 372, wherein said β-secretase substrate is selected from the group consisting of a maltose binding protein fused at the carboxy-terminus to the 125 carboxyl-terminal amino acids of APP having the cleavage site of SEQ ID NO: 54 (MBP-C125wt) and a maltose binding protein fused at the carboxy-terminus to the 125 C-terminus amino acids of APP having the cleavage site of SEQ ID NO: 51 (MBP-C125sw).
- 377. (New) The cell of claim 375, wherein said β -secretase-cleavable fragment is SEQ ID NO: 83.
- 378. (New) The cell of claim 375, wherein said β -secretase-cleavable fragment is SEQ ID NO: 84.
- 379. (New) The cell of claim 375, wherein said β -secretase-cleavable fragment is SEQ ID NO: 85.
- 380. (New) The cell of claim 375, wherein said β-secretase-cleavable fragment is SEQ ID NO: 86.
- 381. (New) The cell of claim 375, wherein said β -secretase-cleavable fragment is SEQ ID NO: 87.
- 382. (New) The cell of claim 375, wherein said β -secretase-cleavable fragment is SEQ ID NO: 88.
- 383. (New) The cell of claim 375, wherein said β -secretase-cleavable fragment is SEQ ID NO: 89.
- 384. (New) The cell of claim 375, wherein said β -secretase-cleavable fragment is SEQ ID NO: 90.

385.	(New) The cell of claim 375, wherein said β-secretase-cleavable fragment
is SEQ ID NO: 91.	
386.	(New) The cell of claim 375, wherein said β-secretase-cleavable fragment
is SEQ ID NO: 92.	, , , , , , , , , , , , , , , , , , ,
387.	(Now) The cell of claim 275 miles in 10 miles in 11 c
	(New) The cell of claim 375, wherein said β -secretase-cleavable fragment
is SEQ ID NO: 93.	
388.	(New) The cell of claim 375, wherein said β-secretase-cleavable fragment
is SEQ ID NO: 94.	
389.	(Now) The coll of claim 275 mb 10 1 1 - Constant
	(New) The cell of claim 375, wherein said β-secretase-cleavable fragment
is SEQ ID NO: 95.	
390.	(New) The cell of claim 375, wherein said β-secretase-cleavable fragment
is SEQ ID NO: 96.	

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REMARKS/ARGUMENTS

After entry of this amendment, claims 48, 51-69, and 114-390 are pending and under consideration, claims 49-50 and 70-113 having been canceled and new claims 114-390 having been added. Claims 48, 51, 58, and 62 have been amended.

Independent claim 48 has been amended to delete "SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 69." New independent claims 131, 139, 155 are directed to SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 69, respectively. New dependent claims depending from independent claims 131, 139, 155 correspond to the claims depending from independent claims 48, i.e., claims 51-57 correspond to claims 132-138, 140-146, and 156-162, respectively. Thus, new claims 131-146 and 155-162 contain no new matter.

New independent claims 114, 122, 147, 163, 171 correspond in part to claim 48.

New independent claims 114, 122, 147, 163, 171, respectively, are directed to an isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NOS: 58; 59; 68; 70; and 74 or a complementary sequence of any of such nucleotides have been added. Applicants note that the Examiner allowed claim 58, which is directed in part to a method of producing a recombinant beta-secretase, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 58; SEQ ID NO 59; SEQ ID NO 68; SEQ ID NO 70; and SEQ ID NO 74. New dependent claims depending from independent claims 114, 122, 147, 163, 171 correspond in part to the claims depending from independent claim 48, i.e., claims 51-57 correspond to claims 115-121, 123-130, 148-154, 164-170, and 172-178, respectively. Support for new claims 114, 122, 147, 163, 171 is provide at, e.g., pages 7-8 of the specification.

Support for new claim 114 is also provided by original claim 50. Thus, new claims 114-130, 147-154, and 163-178 contain no new matter.

Claim 51 has been amended to improve clarity. Support of the amendment is provided at, e.g., page 40, lines 27-28.

Independent claim 58 is directed to a method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 43. Claim 58 has been amended to delete "SEQ ID NO: 2;

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SEQ ID NO: 56; SEQ ID NO: 57; SEQ ID NO: 58; SEQ ID NO: 59; SEQ ID NO: 60; SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 69; SEQ ID NO: 70; SEQ ID NO: 74; SEQ ID NO: 75." New independent claims 179, 185, 197, 203, 209, 215, and 221 are directed to a method of producing a recombinant β-secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 67; SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 70, and SEQ ID NO: 74, respectively. New dependent claims depending from independent claims 179, 185, 197, 203, 209, 215, and 221 correspond to the claims depending from independent claim 58, *i.e.*, claims 59-63 correspond to claims 180-184, 186-190 192-196, 198-202, 204-208, 210-214, 216-220, 222-226, respectively. Thus, new claims 179-226 contain no new matter.

Independent claim 64 is directed to a heterologous cell, comprising (i) a nucleic acid molecule encoding SEQ ID NO: 43 or the complementary sequence of said nucleic acid molecule; (ii) a nucleic acid molecule encoding a β-secretase substrate molecule; and (iii) operatively linked to (i) and (ii), a regulatory sequence effective for expression of said nucleic acid molecules in said cell. Claim 64 has been amended to delete "SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 69." New independent claims 279, 298, 334 are directed to SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 69, respectively. New dependent claims, which respectively depend from independent claims 279, 298, 334, correspond to the claims depending from independent claims 64, *i.e.*, claims 65-69 (as discussed below, claim 69 has been represented as new claims 227-240) correspond to claims 280-297, 299-314, and 335-353, respectively. Thus, new claims 279-314 and 335-353 contain no new matter.

Claim 69, which depends from claim 67, recites, "wherein the β-secretase cleavable fragment is SEQ ID NO: 82. Claim 69 has been amended to delete "SEQ ID NO: 83; SEQ ID NO: 84; SEQ ID NO: 85; SEQ ID NO: 86; SEQ ID NO: 87; SEQ ID NO: 88; SEQ ID NO: 89; SEQ ID NO: 90; SEQ ID NO: 91; SEQ ID NO: 92; SEQ ID NO: 93; SEQ ID NO: 94; SEQ ID NO: 95; and SEQ ID NO: 96." New dependent claims 227-240 are directed to β-secretase cleavable fragments of SEQ ID NO: 83, SEQ ID NO: 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID NO: 90, SEQ ID NO: 91,

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SEQ ID NO: 92, SEQ ID NO: 93, SEQ ID NO: 94, SEQ ID NO: 95, and SEQ ID NO: 96 respectively.

New independent claims 241, 260, 315, 353, and 372 correspond in part to claim 64. New independent claims 241, 260, 315, 353, 372, respectively, are directed to an isolated nucleic acid, comprising a sequence of nucleotides that encodes SEQ ID NOS: 58; 59; 68; 70; and 74 or a complementary sequence of any of such nucleotides have been added. Applicants note that the Examiner allowed claim 58, which is directed in part to a method of producing a recombinant beta-secretase, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 58; SEQ ID NO 59; SEQ ID NO 68; SEQ ID NO 70; and SEQ ID NO 74. Support for new claims 241, 260, 315, 353, and 372 is provide at, e.g., page 38, lines 25-28 and page 40, lines 11-16 of the specification. Thus, new claims 241, 260, 315, 353, and 372 contain no new matter. New dependent claims, which respectively depend from independent claims 241, 260, 315, 353, 372, correspond to the claims depending from independent claim 64, i.e., claims 65-69 (as discussed above, claim 69 has been represented as new claims 227-240) correspond to new dependent claims 242-259, 261-278, 316-333, 354-371, 373-390.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted.

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Request Application Number 09/471,669 for Filing Date December 24, 1999 Continued Examination (RCE) Transmittal First Named Inventor Anderson, John P. Address to: Art Unit 1652 Mail Stop RCE Commissioner for Patents **Examiner Name** Walicka, Malgorzata A. P.O. Box 1450 Alexandria, VA 22313-1450 Attomey Dockét Number 015270-006430US

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TOWNSEND and TOWNSEND and CREW

San Francisco, California Tel 415 576-0200

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FACSIMILE COVER SHEET

OFFICE OF PETITIONS

		3
Date: December 06, 2004	Client & Matter Number; 015270-006430US	No. Pages (including this one):
То:	At Fax Number:	Confirmation Phone Number:
Sherry Brinkley USPTO - Office of Petitions	571-273-0025	571-272-3204

From: Steven C. Garland

(3816)

Message: Dear Ms. Brinkley.

Pursuant to our telephone conversation this morning, I am forwarding copies of the following papers which were filed via Express Mail on November 22, 2004 regarding Application No. 09/471,669:

- 1. Request for Continued Examination (RCE) Transmittal (1 page);
- 2. Fee Transmittal (PTO/SB/17(1 page, submitted in duplicate);
- 3. Amendment (34 pages);
- 4. Supplemental Information Disclosure Statement (2 pages);
- PTO/SB/08A (1 page);
- 6. Petition to Withdraw Application From Issuance Pursuant to 37 CFR §1.313(c)(2) (2 pgs); and
- 7. Return postcard.

Also attached is a copy of Express Mail No. EV 530 886 675 US bearing the USPS' "date in" stamp of November 22, 2004.

Because an Issue Notification was mailed subsequent to the above filing, your prompt attention to this matter will be greatly appreciated.

- Steve Garland

Original Will:	BE SENT BY MAIL	BE SENT BY FEDEX/OVERNIGHT COURIER	BE SENT BY MESSENGER	X	NOT BE SENT

Faxed:

Return to: Steven C. Garland - (5279)

If you have problems with reception please call Fax Services at extension 5565

Important

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and/or exempt from disclosure by applicable law or court order. If the reader of this message is not the Intended recipient, or the employee or agent responsible for delivering the message to the Intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address via the United States Postal Service. Thank you.

60371184 v1

PTO/\$B/17 (10-04)

Complete if Known **FEE TRANSMITTAL** Application Number 09/471,669 for FY 2005 Filing Date December 24, 1999 Anderson, John P. First Named Inventor Effective 10/01/2004. Patent feet are subject to annual revision. Walicka, Malgorzata A. Examiner Name Applicant claims small entity status. See 37 CFR 1.27 Art Unit 015270-006430USAX RECEIVED TOTAL AMOUNT OF PAYMENT (\$) Attorney Docket No.

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SUBMITTED BY				Ċ	mpieta (if applicable)
Name (Print/Type)	Rosemane L. Celli	Registration No. (Attorney/Agent)	42,397	Talephone	650-326-2400
Signature	Kosema	is I alli		Date	November 22, 2004
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"Express Mail" Label No. EV 530 886 675 US

Date of Deposit November 22, 2004

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Address" gervice under 37 CFR 1.10 on the date indicated above and is addressed to:

Mail Stop Petitions Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313

Attorney Docket No.: 015270-006430US

Client Reference No.: 228-US-NEW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

John P. Anderson et al.

Application No.: 09/471,669

Filed: December 24, 1999

For: BETA-SECRETASE ENZYME COMPOSITIONS AND METHODS

Examiner: Walicka, Malgorzata A.

Art Unit: 1652

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37

CFR §1.97 and §1.98

Mail Stop Petitions Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A are being called to the attention of the Examiner. Copies of the citation nos. 113-138 are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

PATENT

John P. Anderson et al. Application No.: 09/471,669

Page 2

As provided for by 37 CFR 1.97(g) and (h), no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information, and no inference should be made that the information and references cited are, or are considered to be material to patentability because they are in this statement. No inference should be made that the information and references cited are prior art merely because they are in this statement.

Applicant believes that no fee is required for submission of this statement. This paper is being submitted with an RCE. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted.

mane I lill Rosemarie L. Celli Reg. No. 42,397

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, Eighth Floor San Francisco, California 94111-3834

Tel: 650-326-2400 Fax: 650-326-2422

RLC:scg 60360410 VI

PTO-SB-08A (06-03)

Substitute for form 1449A-PTO		Complete if Known							
MICORILLEIGN STATE	Application Number	09/471,669							
INFORMATION DISCLOSURE		December 24, 1999							
STATEMENT BY APPLICANT	First Named Inventor	Anderson, John P., et. al.							
	Art Unit	1652							
(Use as many sheets as necessary)	Examiner Name	Walicka, Malgorzata A.							
Sheet 1 of 1	Attorney Docket Number	015270-006430US							

			U.S. PATENT D	OCUMENTS	•
	Cha	Document Number	Publication Data MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columna, Lines, Where Relevant Passages or Relevant
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				FOREIGN PA	TENT DOCUM	ENTS		
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initials*	No.'	Country Code ³	Number	Kind Clode [®] (F <i>lancers</i>)	Publication Date	Name of Patentee or Applicant of Cited Document	Where Relovant Passages or Relevant Figures Appear	T0
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	135	WO	01/49098	A2	07-12-2001	Bienkowski et al.		
	136	WO	01/49097	A2	07-12-2001	Bienkowski et al.		+
	137	WO	01/23533	A2	04-05-2001	Gurney et al.		tਜ ੋ
	138	wo	00/17369	A2	03-30-2000	Gumey et al.		╁

		
Examiner Signature .	Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kind Codes of USPTO Patent Documents at www.uspto.nov or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.